

**AMENDMENTS TO THE SPECIFICATION**

Please amend Abstract, as follows:

Abstract: ~~Disclosed herein is a helical implant. The~~ A helical implant is formed with threads ~~thereon~~ thereon and each of threads has threads inclines ~~comprising~~ incised with micro-patterns, such as recesses and ~~protrution~~ protrusions, on the thread inclines. The micro-patterns on the helical implant may have triangular patterns 100a, stepped patterns 100b and acruate 100c or combination patterns 100d composed of plurality of patterns. The micro-patterns preferably have a cross sectional area of 150  $\mu\text{m}$ . The helical implant has an increased contact area at the fixed portion, so that the volume of the bone induced between the threads 10b is increased from the several dozens of  $\mu\text{m}$  level to fifty times that at maximum, thereby dispersing load at the implanted portion and preventing physical damage near the implanted portion.